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(54) PRESSURE-SENSITIVE ADHESIVE SHEET AND WINDOW GLASS STRUCTURE

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a protective pressure-sensitive adhesive sheet which not only can prevent the breaking of glass or scattering of fragments of broken glass but also can provide heat-insulating, soundproof, and vibrationproof effects when applied to an adherend such as window glass.

SOLUTION: This pressure-sensitive adhesive sheet comprises a substrate having two main surfaces and a projected part formed from a crosslinked pressure-sensitive adhesive polymer and arranged in a pattern on one of the two main surfaces. The projected part has an elastic modulus G of 5×10^5 - 4×10^6 dyn/cm and a decrease in $\log_{10} G$ (in the range of 25-125°C) of lower than 1.0, and the pattern of the projected part can be seen through the substrate from the surface whereon the projected part is not arranged. The part of the main surface whereon the projected part is not arranged has a surface roughness R_a of 0.4-200 μm when measured with a tracer-type surface roughness meter at a contact needle diameter R of 5 μm and a cut off value of 0.8 mm.